

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 1082922
FACILITY: Emerald BioEnergy
LOCATION: 2881 Co Rd 156
 Cardington, OH 43315
COUNTY: Morrow
DISTRICT: CDO

STATUS: Original
PERMIT NUMBER: 4IN00204*BD
STATION CODE: 581
MONITORING PERIOD : 2021-08-01 To: 2021-08-31
REPORTING LAB: N/A
ANALYST: jeffrey williamson
NO DISCHARGE INDICATOR: AL

PARAMETER	pH	Ammonia (NH3) In Sludge	Nitrogen Kjeldahl, Total In Sludge	Phosphorus, Total In Sludge	Potassium In Sludge	Arsenic, Total In Sludge	Cadmium, Total In Sludge
PARAMETER CODE	00400	00611	00627	00668	00938	01003	01028
UNITS	S.U.	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FREQUENCY	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month
SAMPLING TYPE	Composite	Composite	Composite	Composite	Composite	Composite	Composite
2021-08-01							
2021-08-02							
2021-08-03							
2021-08-04							
2021-08-05							
2021-08-06							
2021-08-07							
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2021-08-27							
2021-08-28							
2021-08-29							
2021-08-30							
2021-08-31							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative <div style="text-align: center; font-size: 1.2em;">Jeffrey Williamson</div>		I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.		Signature of Responsible Official or Authorized Representative <div style="height: 80px;"></div>		Submission Date/Time <div style="text-align: center;"> Certification Version Date 2021-09- 20 10:09 </div>	

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LOCATION: 2881 Co Rd 156
 Cardington, OH 43315
COUNTY: Morrow
DISTRICT: CDO

STATUS: Original
PERMIT NUMBER: 4IN00204*BD
STATION CODE: 581
MONITORING PERIOD : 2021-08-01 To: 2021-08-31
REPORTING LAB: N/A
ANALYST: jeffrey williamson
NO DISCHARGE INDICATOR: AL

PARAMETER	Copper, Total In Sludge	Lead, Total In Sludge	Nickel, Total In Sludge	Zinc, Total In Sludge	Selenium, Total In Sludge	Sludge Fee Weight	Sludge Weight
PARAMETER CODE	01043	01052	01068	01093	01148	51129	70316
UNITS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	dry tons	Dry Tons
FREQUENCY	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month
SAMPLING TYPE	Composite	Composite	Composite	Composite	Composite	Total	Total
2021-08-01							
2021-08-02							
2021-08-03							
2021-08-04							
2021-08-05							
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2021-08-26							
2021-08-27							
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2021-08-30							
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Minimum							
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Average							
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Jeffrey Williamson							Certification Version Date 2021-09-20 10:09

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FACILITY: Emerald BioEnergy
LOCATION: 2881 Co Rd 156
 Cardington, OH 43315
COUNTY: Morrow
DISTRICT: CDO

STATUS: Original
PERMIT NUMBER: 4IN00204*BD
STATION CODE: 581
MONITORING PERIOD : 2021-08-01 To: 2021-08-31
REPORTING LAB: N/A
ANALYST: jeffrey williamson
NO DISCHARGE INDICATOR: AL

PARAMETER	Mercury, Total In Sludge	Molybdenum In Sludge					
PARAMETER CODE	71921	78465					
UNITS	mg/kg	mg/kg					
FREQUENCY	1/Month	1/Month					
SAMPLING TYPE	Composite	Composite					
2021-08-01							
2021-08-02							
2021-08-03							
2021-08-04							
2021-08-05							
2021-08-06							
2021-08-07							
2021-08-08							
2021-08-09							
2021-08-10							
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2021-08-12							
2021-08-13							
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2021-08-15							
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2021-08-17							
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2021-08-26							
2021-08-27							
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2021-08-30							
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Minimum							
Maximum							
Average							
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Jeffrey Williamson							

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SUBMISSION ID:	1082922	STATUS:	Original
FACILITY:	Emerald BioEnergy	PERMIT NUMBER:	4IN00204*BD
LOCATION:	2881 Co Rd 156	STATION CODE:	582
	Cardington, OH 43315	MONITORING PERIOD :	2021-08-01 To: 2021-08-31
COUNTY:	Morrow	REPORTING LAB:	
DISTRICT:	CDO	ANALYST:	
		NO DISCHARGE INDICATOR:	AL

PARAMETER	pH	Ammonia (NH3) In Sludge	Nitrogen Kjeldahl, Total In Sludge	Phosphorus, Total In Sludge	Potassium In Sludge	Arsenic, Total In Sludge	Cadmium, Total In Sludge
PARAMETER CODE	00400	00611	00627	00668	00938	01003	01028
UNITS	S.U.	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FREQUENCY	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month
SAMPLING TYPE	Composite	Composite	Composite	Composite	Composite	Composite	Composite
2021-08-01							
2021-08-02							
2021-08-03							
2021-08-04							
2021-08-05							
2021-08-06							
2021-08-07							
2021-08-08							
2021-08-09							
2021-08-10							
2021-08-11							
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2021-08-14							
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2021-08-16							
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2021-08-19							
2021-08-20							
2021-08-21							
2021-08-22							
2021-08-23							
2021-08-24							
2021-08-25							
2021-08-26							
2021-08-27							
2021-08-28							
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2021-08-30							
2021-08-31							
Minimum							
Maximum							
Average							
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SUBMISSION ID: 1082922
FACILITY: Emerald BioEnergy
LOCATION: 2881 Co Rd 156
 Cardington, OH 43315
COUNTY: Morrow
DISTRICT: CDO

STATUS: Original
PERMIT NUMBER: 4IN00204*BD
STATION CODE: 582
MONITORING PERIOD : 2021-08-01 To: 2021-08-31
REPORTING LAB:
ANALYST:
NO DISCHARGE INDICATOR: AL

PARAMETER	Copper, Total In Sludge	Lead, Total In Sludge	Nickel, Total In Sludge	Zinc, Total In Sludge	Selenium, Total In Sludge	Sludge Fee Weight	Sludge Weight
PARAMETER CODE	01043	01052	01068	01093	01148	51129	70316
UNITS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	dry tons	Dry Tons
FREQUENCY	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month
SAMPLING TYPE	Composite	Composite	Composite	Composite	Composite	Total	Total
2021-08-01							
2021-08-02							
2021-08-03							
2021-08-04							
2021-08-05							
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Jeffrey Williamson							Certification Version Date 2021-09-20 10:09

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FACILITY: Emerald BioEnergy
LOCATION: 2881 Co Rd 156
 Cardington, OH 43315
COUNTY: Morrow
DISTRICT: CDO

STATUS: Original
PERMIT NUMBER: 4IN00204*BD
STATION CODE: 582
MONITORING PERIOD : 2021-08-01 To: 2021-08-31
REPORTING LAB:
ANALYST:
NO DISCHARGE INDICATOR: AL

PARAMETER	Mercury, Total In Sludge	Molybdenum In Sludge					
PARAMETER CODE	71921	78465					
UNITS	mg/kg	mg/kg					
FREQUENCY	1/Month	1/Month					
SAMPLING TYPE	Composite	Composite					
2021-08-01							
2021-08-02							
2021-08-03							
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Jeffrey Williamson							

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SUBMISSION ID: FACILITY: LOCATION: COUNTY: DISTRICT:	1082922 Emerald BioEnergy 2881 Co Rd 156 Cardington, OH 43315 Morrow CDO	STATUS: PERMIT NUMBER: STATION CODE: MONITORING PERIOD : REPORTING LAB: ANALYST: NO DISCHARGE INDICATOR:	Original 4IN00204*BD 601 2021-08-01 To: 2021-08-31 N/A jeffrey williamson AL
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PARAMETER	Hydraulic Loading Rate (HLR)	Sludge Solids, Percent Total	Sludge Solids, Percent Volatile	COD, Soluble	Organic Loading Rate (OLR)		
PARAMETER CODE	51028	70318	70322	80116	99981		
UNITS	GPD	%	%	mg/l	lb/cf/day		
FREQUENCY	1/Week	1/Week	1/Week	1/Week	1/Week		
SAMPLING TYPE	Continuous	Composite	Composite	Composite	Continuous		
2021-08-01							
2021-08-02							
2021-08-03							
2021-08-04							
2021-08-05							
2021-08-06							
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2021-08-26							
2021-08-27							
2021-08-28							
2021-08-29							
2021-08-30							
2021-08-31							
Minimum							
Maximum							
Average							
Count							
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Jeffrey Williamson					Certification Version Date 2021-09-20 10:09		

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SUBMISSION ID: 1082922
FACILITY: Emerald BioEnergy
LOCATION: 2881 Co Rd 156
 Cardington, OH 43315

COUNTY: Morrow
DISTRICT: CDO

STATUS: Original
PERMIT NUMBER: 4IN00204*BD
STATION CODE: 602
MONITORING PERIOD : 2021-08-01 To: 2021-08-31

REPORTING LAB:
ANALYST:
NO DISCHARGE INDICATOR: AL

PARAMETER	Temperature, In Sludge	pH	Alkalinity, Total (CaCO3)	Volatile Fatty Acids (VFA)	Detention Time, days		
PARAMETER CODE	99978	00400	00410	99980	72026		
UNITS	F	S.U.	mg/l	mg/l	days		
FREQUENCY	1/Day	3/Week	3/Week	3/Week	1/Week		
SAMPLING TYPE	Continuous	Composite	Composite	Composite	Continuous		
2021-08-01							
2021-08-02							
2021-08-03							
2021-08-04							
2021-08-05							
2021-08-06							
2021-08-07							
2021-08-08							
2021-08-09							
2021-08-10							
2021-08-11							
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2021-08-22							
2021-08-23							
2021-08-24							
2021-08-25							
2021-08-26							
2021-08-27							
2021-08-28							
2021-08-29							
2021-08-30							
2021-08-31							
Minimum							
Maximum							
Average							
Count							
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Jeffrey Williamson						Certification Version Date 2021-09-20 10:09	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 1082922
FACILITY: Emerald BioEnergy
LOCATION: 2881 Co Rd 156
 Cardington, OH 43315
COUNTY: Morrow
DISTRICT: CDO

STATUS: Original
PERMIT NUMBER: 4IN00204*BD
STATION CODE: 603
MONITORING PERIOD : 2021-08-01 To: 2021-08-31
REPORTING LAB: N/A
ANALYST: jeffrey williamson
NO DISCHARGE INDICATOR: AL

PARAMETER	Solids, Total Volatile	Sludge Solids, Percent Volatile	COD, Soluble	Oil and Grease, Hexane Extr Method	Foreign Matter, percent		
PARAMETER CODE	00157	70322	80116	00552	99979		
UNITS	% Removed	%	mg/l	mg/l	%		
FREQUENCY	1/Week	1/Week	1/Week	1/Month	1/Month		
SAMPLING TYPE	Calculated	Composite	Composite	Composite	Composite		
2021-08-01							
2021-08-02							
2021-08-03							
2021-08-04							
2021-08-05							
2021-08-06							
2021-08-07							
2021-08-08							
2021-08-09							
2021-08-10							
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2021-08-26							
2021-08-27							
2021-08-28							
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2021-08-30							
2021-08-31							
Minimum							
Maximum							
Average							
Count							
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LOCATION: 2881 Co Rd 156
 Cardington, OH 43315
COUNTY: Morrow
DISTRICT: CDO

STATUS: Original
PERMIT NUMBER: 4IN00204*BD
STATION CODE: 604
MONITORING PERIOD : 2021-08-01 To: 2021-08-31
REPORTING LAB: Renergy
ANALYST: Jeffrey williamson
NO DISCHARGE INDICATOR:

PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING TYPE	Total	Total					
2021-08-01							
2021-08-02							
2021-08-03							
2021-08-04							
2021-08-05							
2021-08-06							
2021-08-07							
2021-08-08							
2021-08-09	3950000	5.48507					
2021-08-10							
2021-08-11							
2021-08-12							
2021-08-13							
2021-08-14							
2021-08-15	3950000	5.48507					
2021-08-16							
2021-08-17							
2021-08-18							
2021-08-19							
2021-08-20							
2021-08-21							
2021-08-22							
2021-08-23	4400000	5.48507					
2021-08-24							
2021-08-25							
2021-08-26							
2021-08-27							
2021-08-28							
2021-08-29							
2021-08-30							
2021-08-31	4400000	5.48507					
Minimum	3950000.0						
Maximum	4400000.0						
Average	4175000						
Count	4						
Name of Responsible Official or Authorized Representative		I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Jeffrey Williamson							Certification Version Date 2021-09-20 10:09

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LOCATION: 2881 Co Rd 156
 Cardington, OH 43315
COUNTY: Morrow
DISTRICT: CDO

STATUS: Original
PERMIT NUMBER: 4IN00204*BD
STATION CODE: 605
MONITORING PERIOD : 2021-08-01 To: 2021-08-31
REPORTING LAB: Renergy
ANALYST: Jeffrey williamson
NO DISCHARGE INDICATOR:

PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING TYPE	Total	Total					
2021-08-01							
2021-08-02							
2021-08-03							
2021-08-04							
2021-08-05							
2021-08-06							
2021-08-07							
2021-08-08							
2021-08-09	285000	.38769					
2021-08-10							
2021-08-11							
2021-08-12							
2021-08-13							
2021-08-14							
2021-08-15	285000	.38769					
2021-08-16							
2021-08-17							
2021-08-18							
2021-08-19							
2021-08-20							
2021-08-21							
2021-08-22							
2021-08-23	310500	.38769					
2021-08-24							
2021-08-25							
2021-08-26							
2021-08-27							
2021-08-28							
2021-08-29							
2021-08-30							
2021-08-31	320000	.38769					
Minimum	285000.0						
Maximum	320000.0						
Average	300125						
Count	4						
Name of Responsible Official or Authorized Representative <div style="text-align: center; font-size: 1.2em;">Jeffrey Williamson</div>			Signature of Responsible Official or Authorized Representative <div style="height: 80px;"></div>			Submission Date/Time	
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LOCATION: 2881 Co Rd 156
 Cardington, OH 43315
COUNTY: Morrow
DISTRICT: CDO

STATUS: Original
PERMIT NUMBER: 4IN00204*BD
STATION CODE: 606
MONITORING PERIOD : 2021-08-01 To: 2021-08-31
REPORTING LAB: Renergy
ANALYST: Jeffrey williamson
NO DISCHARGE INDICATOR:

PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING TYPE	Total	Total					
2021-08-01							
2021-08-02							
2021-08-03							
2021-08-04							
2021-08-05							
2021-08-06							
2021-08-07							
2021-08-08							
2021-08-09	250000	.33176					
2021-08-10							
2021-08-11							
2021-08-12							
2021-08-13							
2021-08-14							
2021-08-15	250000	.33176					
2021-08-16							
2021-08-17							
2021-08-18							
2021-08-19							
2021-08-20							
2021-08-21							
2021-08-22							
2021-08-23	375000	.33176					
2021-08-24							
2021-08-25							
2021-08-26							
2021-08-27							
2021-08-28							
2021-08-29							
2021-08-30							
2021-08-31	375000	.33176					
Minimum	250000.0						
Maximum	375000.0						
Average	312500						
Count	4						
Name of Responsible Official or Authorized Representative <div style="text-align: center; font-size: 1.2em;">Jeffrey Williamson</div>			Signature of Responsible Official or Authorized Representative <div style="height: 80px;"></div>			Submission Date/Time	
						Certification Version Date 2021-09-20 10:09	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 1082922
FACILITY: Emerald BioEnergy
LOCATION: 2881 Co Rd 156
 Cardington, OH 43315
COUNTY: Morrow
DISTRICT: CDO

STATUS: Original
PERMIT NUMBER: 4IN00204*BD
STATION CODE: 607
MONITORING PERIOD : 2021-08-01 To: 2021-08-31
REPORTING LAB: Renergy
ANALYST: Jeffrey williamson
NO DISCHARGE INDICATOR:

PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING TYPE	Total	Total					
2021-08-01							
2021-08-02							
2021-08-03							
2021-08-04							
2021-08-05							
2021-08-06							
2021-08-07							
2021-08-08							
2021-08-09	2650000	2.85714					
2021-08-10							
2021-08-11							
2021-08-12							
2021-08-13							
2021-08-14							
2021-08-15	2550000	2.85714					
2021-08-16							
2021-08-17							
2021-08-18							
2021-08-19							
2021-08-20							
2021-08-21							
2021-08-22							
2021-08-23	2550000	2.85714					
2021-08-24							
2021-08-25							
2021-08-26							
2021-08-27							
2021-08-28							
2021-08-29							
2021-08-30							
2021-08-31	2550000	2.85714					
Minimum	2550000.0						
Maximum	2650000.0						
Average	2575000						
Count	4						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Jeffrey Williamson						Certification Version Date 2021-09-20 10:09	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 1082922
FACILITY: Emerald BioEnergy
LOCATION: 2881 Co Rd 156
 Cardington, OH 43315
COUNTY: Morrow
DISTRICT: CDO

STATUS: Original
PERMIT NUMBER: 4IN00204*BD
STATION CODE: 608
MONITORING PERIOD : 2021-08-01 To: 2021-08-31
REPORTING LAB: Renergy
ANALYST: Jeffrey williamson
NO DISCHARGE INDICATOR:

PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING TYPE	Total	Total					
2021-08-01							
2021-08-02							
2021-08-03							
2021-08-04							
2021-08-05							
2021-08-06							
2021-08-07							
2021-08-08							
2021-08-09	1310000	1.36200					
2021-08-10							
2021-08-11							
2021-08-12							
2021-08-13							
2021-08-14							
2021-08-15	1228000	1.36200					
2021-08-16							
2021-08-17							
2021-08-18							
2021-08-19							
2021-08-20							
2021-08-21							
2021-08-22							
2021-08-23	1225000	1.36200					
2021-08-24							
2021-08-25							
2021-08-26							
2021-08-27							
2021-08-28							
2021-08-29							
2021-08-30							
2021-08-31	1225000	1.36200					
Minimum	1225000.0						
Maximum	1310000.0						
Average	1247000						
Count	4						
Name of Responsible Official or Authorized Representative <div style="text-align: center; font-size: 1.2em;">Jeffrey Williamson</div>		I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.		Signature of Responsible Official or Authorized Representative <div style="height: 80px;"></div>		Submission Date/Time <div style="text-align: center;"> Certification Version Date 2021-09-20 10:09 </div>	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 1082922
FACILITY: Emerald BioEnergy
LOCATION: 2881 Co Rd 156
 Cardington, OH 43315
COUNTY: Morrow
DISTRICT: CDO

STATUS: Original
PERMIT NUMBER: 4IN00204*BD
STATION CODE: 609
MONITORING PERIOD : 2021-08-01 To: 2021-08-31
REPORTING LAB: Renergy
ANALYST: Jeffrey williamson
NO DISCHARGE INDICATOR:

PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING TYPE	Total	Total					
2021-08-01							
2021-08-02							
2021-08-03							
2021-08-04							
2021-08-05							
2021-08-06							
2021-08-07							
2021-08-08							
2021-08-09	20.76000	20.76969					
2021-08-10							
2021-08-11							
2021-08-12							
2021-08-13							
2021-08-14							
2021-08-15	20.76000	20.76969					
2021-08-16							
2021-08-17							
2021-08-18							
2021-08-19							
2021-08-20							
2021-08-21							
2021-08-22							
2021-08-23	20.76968	20.76969					
2021-08-24							
2021-08-25							
2021-08-26							
2021-08-27							
2021-08-28							
2021-08-29							
2021-08-30							
2021-08-31	20.76969	20.76969					
Minimum	20.76						
Maximum	20.76969						
Average	20.76484						
Count	4						
Name of Responsible Official or Authorized Representative <div style="text-align: center; font-size: 1.2em;">Jeffrey Williamson</div>			Signature of Responsible Official or Authorized Representative <div style="height: 80px;"></div>			Submission Date/Time	
						Certification Version Date 2021-09-20 10:09	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY:
LOCATION:

Emerald BioEnergy
2881 Co Rd 156
Cardington, OH 43315

PERMIT NUMBER:
MONITORING PERIOD :

4IN00204*BD
2021-08-01 To: 2021-08-31

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
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